

3) Calculate the probability of each event below:

- Rolling two dice and getting sum of either 3 or 11.
- Flipping 3 coins and getting exactly 2 heads.
- A bag contains 2 yellow marbles and 5 red marbles. Two marbles are drawn at random. One marble is drawn and not replaced. Then a second marble is drawn. What is the probability that the first marble is red and the second one is yellow?

Handwritten calculations and a probability table for rolling two dice (D1 and D2).

Handwritten probabilities on the left:

$$\frac{2}{3}$$

$$\frac{1}{3}$$

$$\frac{1}{6}$$

$$\frac{1}{9}$$

Handwritten calculation on the right:

$$\frac{4}{36}$$

Handwritten calculation at the bottom:

$$\left(\frac{1}{6} \cdot \frac{1}{6}\right) 2 + \left(\frac{1}{6} \cdot \frac{1}{6}\right) 2$$

Handwritten table for rolling two dice (D1 and D2):

	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9
4	5	6	7	8	9	10
5	6	7	8	9	10	11
6	7	8	9	10	11	12

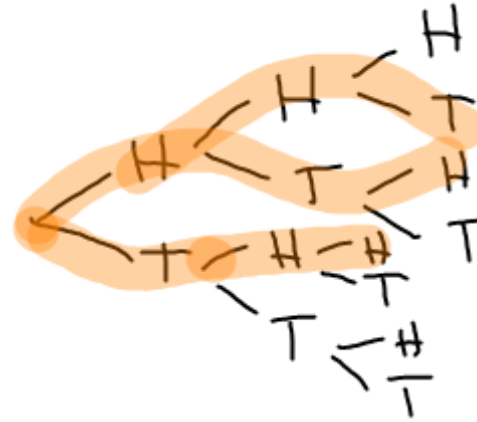
$$\frac{1}{3}$$

$$\frac{3}{8}$$

$$\frac{2}{3}$$

$$\frac{1}{2}$$

HHJ
THH
HTH



$$\left(\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}\right) 3 = \frac{3}{8}$$

3) Calculate the probability of each event below:

- Rolling two dice and getting sum of either 3 or 11.
- Flipping 3 coins and getting exactly 2 heads.
- A bag contains 2 yellow marbles and 5 red marbles. Two marbles are drawn at random. One marble is drawn and not replaced. Then a second marble is drawn. What is the probability that the first marble is red and the second one is yellow?

